MEMORY CARD GAME – FUNCTION FAMILIES

Each of the 8 families we discovered yesterday has 3 cards
One with the name of the family
One with the equation of the parent function
One with the graph of the parent function

1. Mix the cards up and place all the cards face down in a 6x4 arrangement

2. On your turn, flip over two cards. Your goal is to turn over two cards that belong to the same family. If you find a pair in the same family, you can keep the pair, then take another turn. If you do not find a matching pair, turn the cards back over and the next person takes a turn.

3. When the third and final card in each set is found, the following happens:
   - If the person who flips the third card has the other two that match, they add it to the set and keep it for good.
   - If the person who flips the third card does not have the matching pair, they steal the set from the player who currently has it.

4. Once all the sets of three have been found, the player with the most sets wins.

5. Play the game at least twice. We will have a short quiz on parent functions after this exercise.

GO FISH CARD GAME – FUNCTION FAMILIES

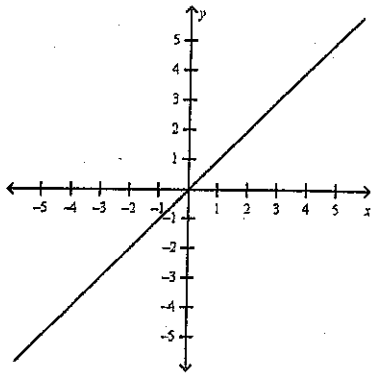
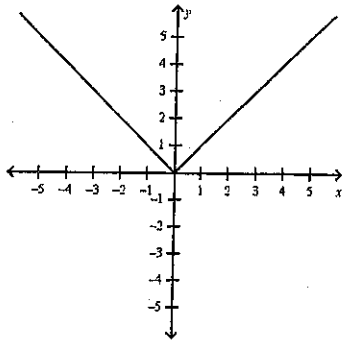
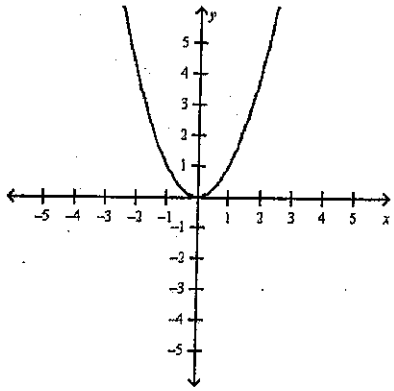
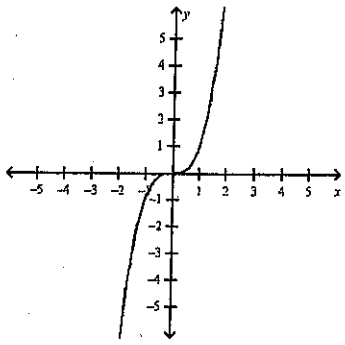
Each of the 8 families we discovered yesterday has 3 cards
- One with the name of the family
- One with the equation of the parent function
- One with the graph of the parent function

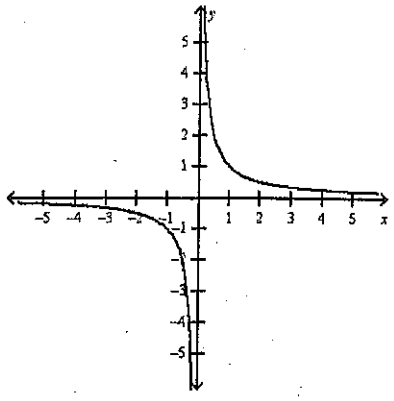
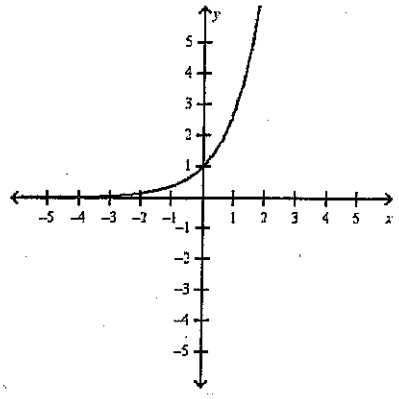
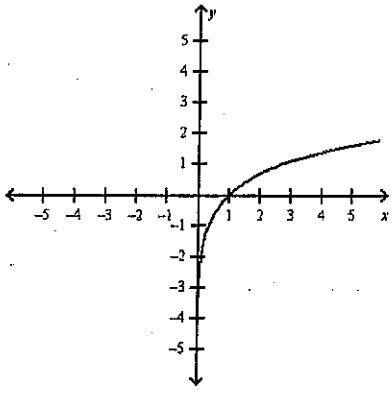
1. Deal out 5 cards to each player.

2. On your turn, ask the opponent for a card that will help complete one of your sets of 3. In order to force someone to give up a card, you must ask your question in a mathematical way. (For example, "Do you have the graph of a parabola?" or "Do you have the equation for a square root function?" NOT "Do you have something that goes with this card").

3. When you find a complete set of 3 cards, put that set down on the table and name it. Play until there are no more cards. The person with the most sets when the cards run out wins.

4. Play the game at least twice. We will have a matching quiz on parent functions soon.

$f(x) = x$	Linear	
$f(x) = \lvert x \rvert$	Absolute Value	
$f(x) = x^2$	Quadratic (Parabola)	
$f(x) = x^3$	Cubic	

$f(x)=\frac{1}{x}$	Inverse (Hyperbola)	
$f(x)=e^{x}$	Exponential	
$f(x)=\ln x$	Logarithmic	
$f(x)=\sin x$	Sine (Trigonometric)